Appl. No.: 10/689,280 Docket No.: DB001065-000

Preliminary Amdt. Dated: 7 October 2004

Amendments to the Specification:

On page 1, please amend paragraph [0001] as follows:

[0001] The present application is related to U.S. Patent Application Serial No.
10/689,336 [[]] entitled "Method for Load Balancing a Loop of Parallel
Processing Elements" filed [[]] (DB001068-000, Micron no. 02-1298) 20
October 2003, U.S. Patent Application Serial No. 10/689,355 [[]] entitled
"Method for Using Filtering to Load Balance a Loop of Parallel Processing Elements"
filed [[]] (DB001061-000, Micron no. 02-1296) 20 October 2003, U.S. Patent
Application Serial No. 10/689,345 [[,]] entitled "Method for Load Balancing
a Line of Parallel Processing Elements" filed [[]]-(DB001066-000, Micron no.
02-1267) 20 October 2003, U.S. Patent Application Serial No. <u>10/689,312</u> [[]]
entitled "Method for Using Extrema to Load Balance a Loop of Parallel Processing
Elements" filed [[]] (DB001067-000, Micron no. 02-1297) 20 October 2003,
U.S. Patent Application Serial No. 10/689,365 [[]] entitled "Method for Load
Balancing an N-Dimensional Array of Parallel Processing Elements" filed [[]]
(DB001062-000, Micron no. 02-1295) 20 October 2003, and U.S. Patent Application
Serial No. 10/689,382 [[]] entitled "Method for Rounding Values for a Plurality
of Parallel Processing Elements" filed [[]] (DB001064-000, Micron no. 02-1269)
20 October 2003.

On page 8, please amend paragraph [0040] as follows:

[0040] In the current embodiment, the H-registers 42 are comprised of synchronous SRAM and each processing element within the processing element array 28 contains eight H-registers 42 so that two pages can be stored from different DRAM locations, thus allowing the interleaving of short i/o bursts to be more efficient. Result register pipeline 40 is also connected to one or more neighborhood connection registers ("X-register") (not shown). The X-register links one PE 30 to its neighboring PE's 30 in the processing element array 28. The reader desiring more information about the hardware shown in FIGs. 1 and 2 is directed to UK Patent application No. 0221563.0 (serial no. not yet assigned) entitled "Control of Processing Elements in Parallel Processors" filed 17 September 2002, (Mieron no. 02-1604) which is hereby incorporated by reference.